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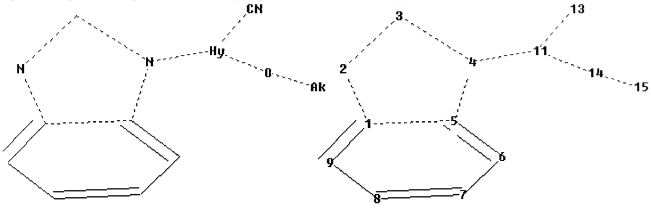


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chain nodes :
11  13  14  15
ring nodes :
1  2  3  4  5  6  7  8  9
chain bonds :
4-11  11-13  11-14  14-15
ring bonds :
1-2  1-5  1-9  2-3  3-4  4-5  5-6  6-7  7-8  8-9
exact/norm bonds :
1-2  1-5  2-3  3-4  4-5  4-11  11-13  11-14  14-15
normalized bonds :
1-9  5-6  6-7  7-8  8-9
isolated ring systems :
containing 1 :

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  11:Atom
13:CLASS  14:CLASS  15:CLASS
Generic attributes :
11:
Saturation              : Unsaturated
Number of Carbon Atoms : less than 7
Number of Hetero Atoms : Exactly 1
Type of Ring System    : Monocyclic

Element Count :
Node 11: Limited
    C,C4
    S,S1

L1      STRUCTURE UPLOADED



=> d his

     FILE 'REGISTRY' ENTERED AT 16:57:18 ON 05 NOV 2008
L1                STRUCTURE UPLOADED
L3            33 S L1 SSS FULL

     FILE 'CAPLUS' ENTERED AT 16:58:20 ON 05 NOV 2008
L4             4 S L3
L5             1 S US200!-597828/APPS
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L6             1 S L4 AND L5
L7             3 S L4 NOT L5

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=> d l1
L1 HAS NO ANSWERS
L1                STR
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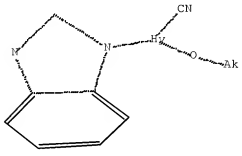


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=> d l6 bib abs

√L6   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2008 ACS on STN - INSTANT
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PA	Glaxo Group Limited, UK				
	PATENT NO.	KIND	DATE	√APPLICATION NO.	DATE
	---	---	---	---	---
PI	WO 2005075465	A1	20050818	WO 2005-EP1432	20050207
	EP 1720864	A1	20061115	EP 2005-707356	20050207
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, HR, LV				
	JP 2007522142	T	20070809	JP 2006-551827	20050207
	US 20070149519	A1	20070628	US 2006-597828	20060809 <--
PRAI	GB 2004-2809	A	20040209		
	WO 2005-EP1432	W	20050207		

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√L7   ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2008 ACS on STN
SO   Bioorganic & Medicinal Chemistry Letters √ (2006), 16(24), 6236-6240


L7   ANSWER 2 OF 3  CAPLUS  COPYRIGHT 2008 ACS on STN
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PA	Smithkline Beecham Corporation, USA				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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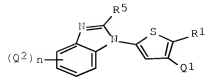
PI	WO 2005037827	A1	20050428	WO 2004-US33585	20041012
	EP 1685128	A1	20060802	EP 2004-794836	20041012
	JP 2007509070	T	20070412	JP 2006-535584	20041012
	US 20070060576	A1	20070315	√US 2006-575210	20060410
PRAI	US 2003-511991P	P	20031016		
	WO 2004-US33585	W	20041012		
OS	CASREACT 142:430276; MARPAT 142:430276				
GI					



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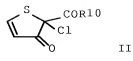
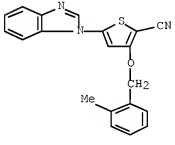


II

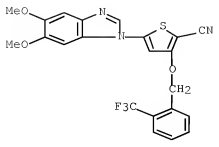
AB Title compds. [I; R1 = H, alkyl, alkenyl, alkynyl, COR7, CO2R7, cyano, (substituted) heterocyclyl, etc.; Q1 = (R2)a(Y1)b(R2)cR3; a, b, c, aa, bb, cc = 0, 1; ≥1 of, a, b = 1; n = 0-4; Q4 = (R2)aa(Y2)bb(R2)ccR4; Y1, Y2 = O, CO, CO2, OSO2, CONR7, etc.; R2 = alkylene, alkenylene, alkynylene; R3, R4 = H, halo, alkyl, alkenyl, alkynyl, COR7, CO2R7, NO2, cyano, N3, etc.; R5 = H, halo, alkyl, cycloalkyl, OR7, NHSO2R7, etc.; R7 = H, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl], were prepared by treatment of the corresponding N-unsubstituted benzimidazoles with 2-chloro-3-oxo-2,3-dihydrothiophene-2-carboxylates (II; R10 = alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, protecting group) in the presence of base. Thus, benzimidazole in CHCl3 was treated with Me 2-chloro-3-oxo-2,3-dihydro-2-thiophenecarboxylate and NaHCO3 followed by stirring for 16 h to give Me 5-(1H-benzimidazol-1-yl)-3-hydroxy-2-thiophenecarboxylate.

IT 660868-54-2 660869-82-9
RL: PRPH (Prophetic)
(Process for preparing thienylbenzimidazoles from benzimidazoles and 2-chloro-3-oxo-2,3-dihydrothiophene-2-carboxylates.)

RN 660868-54-2 CAPLUS
CN 2-Thiophenecarbonitrile, 5-(1H-benzimidazol-1-yl)-3-[(2-methylphenyl)methoxy]- (CA INDEX NAME)



RN 660869-82-9 CAPLUS
CN 2-Thiophenecarbonitrile, 5-(5,6-dimethoxy-1H-benzimidazol-1-yl)-3-[[2-(trifluoromethyl)phenyl]methoxy]- (CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2004:143141 CAPLUS Full-text
DN 140:199325
TI Preparation of benzimidazolyl substituted thiophenes as Polo like kinases (PLK) inhibitors for treating cancer
IN Andrews, Clarence W., III; Cheung, Mui; Davis-Ward, Ronda G.; Drewry, David Harold; Emmitte, Kyle Allen; Hubbard, Robert Dale; Kuntz, Kevin W.; Linn, James Andrew; Mook, Robert Anthony; Smith, Gary Keith; Veal, James Marvin
PA Smithkline Beecham Corporation, USA
SO PCT Int. Appl., 235 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004014899	A1	20040219	WO 2003-US24272	20030804
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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	CA 2493908	A1	20040219	CA 2003-2493908	20030804
	AU 2003265348	A1	20040225	AU 2003-265348	20030804
	AU 2003265348	B2	20070816		
	EP 1546137	A1	20050629	EP 2003-784888	20030804
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	BR 2003013160	A	20050712	BR 2003-13160	20030804
	CN 1688576	A	20051026	CN 2003-823755	20030804
	JP 2006505522	T	20060216	JP 2004-527723	20030804
	NZ 538134	A	20060331	NZ 2003-538134	20030804
	RU 2296758	C2	20070410	RU 2005-102390	20030804
	ZA 2005000864	A	20060426	ZA 2005-864	20050128
	NO 2005000525	A	20050506	NO 2005-525	20050131
	US 20060074119	A1	20060406	US 2005-522958	20050131
	MX 2005PA01544	A	20050419	MX 2005-PA1544	20050208

	IN 2005KN00321	A	20060106	IN 2005-KN321	20050302
	US 20080269298	A1	20081030	US 2008-113224	20080501
PRAI	US 2002-402008P	P	20020808		
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OS MARPAT 140:199325

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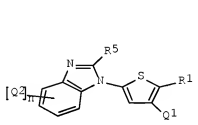

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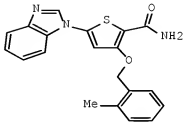


II

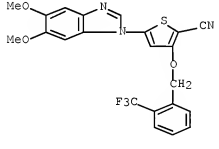
AB The title compds. [I; R1 = H, alkyl, COR7, CO2R7, etc.; Q1 = OCH2Ph, NHCH2Ph (both substituted on Ph ring), etc.; n = 0-4; Q2 = OMe, Cl, Br, etc.; R5 = H, halo, alkyl, etc.; R7 = H, alkyl, cycloalkyl, etc.], useful for treating a condition mediated by PLK, were prepared E.g., a multi-step synthesis of II which showed pIC50 of > 7 in assay for inhibition of PLK1, was given. The pharmaceutical composition comprising the title compds. I is claimed.

IT 660869-82-9P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of benzimidazolylthiophenes as Polo like kinases (PLK) inhibitors)

RN 660869-82-9 CAPLUS

CN 2-Thiophenecarbonitrile, 5-(5,6-dimethoxy-1H-benzimidazol-1-yl)-3-[[2-(trifluoromethyl)phenyl]methoxy]- (CA INDEX NAME)

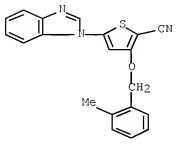


IT 660868-54-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of benzimidazolylthiophenes as Polo like kinases (PLK) inhibitors)

RN 660868-54-2 CAPLUS

CN 2-Thiophenecarbonitrile, 5-(1H-benzimidazol-1-yl)-3-[(2-methylphenyl)methoxy]- (CA INDEX NAME)



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> log hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	19.74	203.95
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.20	-3.20

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STN INTERNATIONAL SESSION SUSPENDED AT 16:59:54 ON 05 NOV 2008